

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535,128A
Source: 1FwP
Date Processed by STIC: 8/14/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/536,128A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- | | |
|---|---|
| 1 <input type="checkbox"/> Wrapped Nucleics
Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2 <input type="checkbox"/> Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3 <input type="checkbox"/> Misaligned Amino Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead. |
| 4 <input type="checkbox"/> Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| 5 <input type="checkbox"/> Variable Length | Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6 <input type="checkbox"/> PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. |
| 7 <input type="checkbox"/> Skipped Sequences (OLD RULES) | Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. |
| 8 <input type="checkbox"/> Skipped Sequences (NEW RULES) | Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000 |
| 9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. |
| 10 <input type="checkbox"/> Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below) |
| 11 <input type="checkbox"/> Use of <220> | Sequence(s) <input type="checkbox"/> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules |
| 12 <input type="checkbox"/> PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13 <input type="checkbox"/> Misuse of n/Xaa | "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u> |



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/535,128A

DATE: 08/14/2006
TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

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3 <110> APPLICANT: Collins, et. al
5 <120> TITLE OF INVENTION: CIS/Trans Riboregulators
7 <130> FILE REFERENCE: 0079571-0094
9 <140> CURRENT APPLICATION NUMBER: 10/535,128A
10 <141> CURRENT FILING DATE: 2005-05-16
12 <160> NUMBER OF SEQ ID NOS: 59
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 11
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Consensus sequence
24 <400> SEQUENCE: 1
25 gccgaccaug c
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 18
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Consensus sequence
36 <400> SEQUENCE: 2
37 aggagggttt ttaccaug
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 19
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Cis-Repressive
48 <400> SEQUENCE: 3
49 ggacgcactg accgaattc
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 20
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Cis-Repressive
60 <400> SEQUENCE: 4
61 ctactttct cctcttaat
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 18
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial

```

pp 1-5
Does Not Comply
Corrected Diskette Needed

11

18

what is the source of genetic material?
(see item 11 on
Error
summary
sheet)

20

RAW SEQUENCE LISTING
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DATE: 08/14/2006
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Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

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69 <220> FEATURE:
70 <223> OTHER INFORMATION: Cis-Repressive
72 <400> SEQUENCE: 5
73 ttctctagtc ctcctt 18
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 19
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Cis-Repressive
84 <400> SEQUENCE: 6
85 ctacctttct cctcttagga 19
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 19
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Cis-Repressive
96 <400> SEQUENCE: 7
97 ctacctatct gctcttgaa 19
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 19
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Cis-Repressive
108 <400> SEQUENCE: 8
109 ctaccattca cctcttgga 19
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 16
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Cis-Repressive
120 <400> SEQUENCE: 9
121 ctaccattca cctggaa 16
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 7
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Cis-Repressive
132 <400> SEQUENCE: 10
133 tttgggt 7
136 <210> SEQ ID NO: 11
137 <211> LENGTH: 15
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial
141 <220> FEATURE:

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/535,128A

DATE: 08/14/2006
TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

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142 <223> OTHER INFORMATION: Cis-Repressive
144 <400> SEQUENCE: 11
145 attaaagagg agaaa
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 42
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
156 <400> SEQUENCE: 12
157 ggagcactga ccgaattcat taaagaggag aaaggatcca tg      42
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 51
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
168 <400> SEQUENCE: 13
169 ctaccttct cctcttaat ttgggtatt aaagaggaga aaggtaccat g      51
172 <210> SEQ ID NO: 14
173 <211> LENGTH: 47
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
180 <400> SEQUENCE: 14
181 ctctagtcct ctttatttg ggtattaaag aggagaaagg taccatg      47
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 50
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
192 <400> SEQUENCE: 15
193 ctaccttct cttttaggtt ttgggtatta aagaggaga aaggtaccatg      50
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 50
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Nuclear Acid sequence
204 <400> SEQUENCE: 16
205 ctaccttatct gctcttgaat ttgggtatta aagaggaga aaggtaccatg
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 50
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

```

do you mean "nucleic acid?"

If so, this is insufficient. You
50 source of
genetic material.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128A

DATE: 08/14/2006

TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\08142006\J535128A.raw

216 <400> SEQUENCE: 17
 217 ctaccattca cctcttggat ttgggttatta aagaggagaa aggtaccatg 50
 220 <210> SEQ ID NO: 18
 221 <211> LENGTH: 50
 222 <212> TYPE: DNA
 223 <213> ORGANISM: Artificial
 225 <220> FEATURE:
 226 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs *give source*
 228 <400> SEQUENCE: 18
 229 ctaccattca cctcttggat ttgggttatta aagaggagaa aggtaccatg 50
 232 <210> SEQ ID NO: 19
 233 <211> LENGTH: 70
 234 <212> TYPE: DNA
 235 <213> ORGANISM: Artificial
 237 <220> FEATURE:
 238 <223> OTHER INFORMATION: Construct Sequence
 240 <400> SEQUENCE: 19
 241 acacccaaat taaagaggag aaaggttagt gtggtaatg aaaattaact tactactacc 60
 243 ttttcttaga 70
 246 <210> SEQ ID NO: 20
 247 <211> LENGTH: 62
 248 <212> TYPE: DNA
 249 <213> ORGANISM: Artificial
 251 <220> FEATURE:
 252 <223> OTHER INFORMATION: Construct Sequence
 254 <400> SEQUENCE: 20
 255 acgccccaaat aaggaggata gagtggtggg taatgaaaat taacttacta cttagttta 60
 257 ga 62
 260 <210> SEQ ID NO: 21
 261 <211> LENGTH: 69
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Artificial
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: Construct Sequence
 268 <400> SEQUENCE: 21
 269 acacccaaat cctaggaga atggtagtgg tggttaatga aaattaactt actactactt 60
 271 tttcataga 69
 274 <210> SEQ ID NO: 22
 275 <211> LENGTH: 67
 276 <212> TYPE: DNA
 277 <213> ORGANISM: Artificial
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: Construct Sequence
 282 <400> SEQUENCE: 22
 283 acacccaaat tatgagcaga ttggtagtgg tggttaatga aaattaactt actactactt 60
 285 tcttaga 67
 288 <210> SEQ ID NO: 23
 289 <211> LENGTH: 71
 290 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/535,128A

DATE: 08/14/2006
TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

291 <213> ORGANISM: Artificial
 293 <220> FEATURE:
 294 <223> OTHER INFORMATION: Construct sequence *give source*
 296 <400> SEQUENCE: 23
 297 acccaaatcc aggaggtgat tggtagtggt ggttaatgaa aattaactta ctactaccat 60
 299 atatctctag a 71
 302 <210> SEQ ID NO: 24
 303 <211> LENGTH: 71
 304 <212> TYPE: DNA
 305 <213> ORGANISM: Artificial
 307 <220> FEATURE:
 308 <223> OTHER INFORMATION: Construct Sequence
 310 <400> SEQUENCE: 24
 311 acccaaatcc aggaggtgaa tggtagtggt ggttaatgaa aattaactta ctactaccat 60
 313 atatctctag a 71
 316 <210> SEQ ID NO: 25
 317 <211> LENGTH: 71
 318 <212> TYPE: DNA
 319 <213> ORGANISM: Artificial
 321 <220> FEATURE:
 322 <223> OTHER INFORMATION: Construct Sequence
 324 <400> SEQUENCE: 25
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 327 atatctctag a 71
 330 <210> SEQ ID NO: 26
 331 <211> LENGTH: 76
 332 <212> TYPE: DNA
 333 <213> ORGANISM: Artificial
 335 <220> FEATURE:
 336 <223> OTHER INFORMATION: Construct Sequence
 338 <400> SEQUENCE: 26
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 341 catatattct ctaaga 76
 344 <210> SEQ ID NO: 27
 345 <211> LENGTH: 71
 346 <212> TYPE: DNA
 347 <213> ORGANISM: Artificial
 349 <220> FEATURE:
 350 <223> OTHER INFORMATION: Construct Sequence
 352 <400> SEQUENCE: 27
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 355 acatctctag a 71
 358 <210> SEQ ID NO: 28
 359 <211> LENGTH: 75
 360 <212> TYPE: DNA
 361 <213> ORGANISM: Artificial
 363 <220> FEATURE:
 364 <223> OTHER INFORMATION: Construct Sequence
 366 <400> SEQUENCE: 28

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,128A

DATE: 08/14/2006

TIME: 12:39:07

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\08142006\J535128A.raw